

<b>P24039.P01</b> <div style="text-align: center;"><b>UTILITY PATENT APPLICATION TRANSMITTAL</b></div> <p>(Only for new nonprovisional applications under 37 CFR 1.53(b))</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Attorney Docket No.</td> <td style="width:33%;">P24039</td> <td style="width:33%;">Total Pages</td> <td></td> </tr> <tr> <td colspan="4">Inventors or Application Identifier</td> </tr> <tr> <td colspan="4">James R. VEALE, William R. ANDERSON, Warren M. GRIFFITH, Glen R. EDWARDS and George R. HOWARD</td> </tr> <tr> <td colspan="4">Title: APPARATUS AND METHOD FOR AUTOMATED HEADSPACE GAS ANALYSIS</td> </tr> </table>	Attorney Docket No.	P24039	Total Pages		Inventors or Application Identifier				James R. VEALE, William R. ANDERSON, Warren M. GRIFFITH, Glen R. EDWARDS and George R. HOWARD				Title: APPARATUS AND METHOD FOR AUTOMATED HEADSPACE GAS ANALYSIS			
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<p>ADDRESS TO: <b>Commissioner for Patents Mail Stop Patent Application PO Box 1450 Alexandria, VA 22313-1450</b></p>																	
<b>APPLICATION ELEMENTS</b>		<b>ACCOMPANYING APPLICATION PARTS</b>															
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (Submit an original, and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> Small Entity Statement(s)</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages <u>35</u>] (preferred arrangement set forth below)</p> <ul style="list-style-type: none"> <li>- Descriptive title of the Invention</li> <li>- Cross References to Related Applications</li> <li>- Statement Regarding Fed sponsored R &amp; D</li> <li>- Reference to sequence listing, a table, or a computer program listing appendix</li> <li>- Background of the Invention</li> <li>- Brief Summary of the Invention</li> <li>- Brief Description of the Drawings (if filed)</li> <li>- Detailed Description</li> <li>- Claim(s)</li> <li>- Abstract of the Disclosure</li> </ul> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) [Total Sheets <u>5</u>]</p> <p>5. <input checked="" type="checkbox"/> Oath or Declaration [Total Pages <u>9</u>]</p> <p style="margin-left: 20px;">a. <input checked="" type="checkbox"/> Newly executed (original or copy) <input type="checkbox"/> Unexecuted</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 20 completed) [Note Box 6 below]</p> <p style="margin-left: 40px;">i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>6. <input type="checkbox"/> Incorporation By Reference (useable if Box 5b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 5b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.</p> <p>7. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</p> <p>8. <input type="checkbox"/> CD-Rom or CD-R in duplicate, large table or Computer Program (Appendix)</p>		<p>9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p style="margin-left: 20px;">b. Specification Sequence Listing on:</p> <p style="margin-left: 40px;">i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p style="margin-left: 40px;">ii. <input type="checkbox"/> paper</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> Statements verifying identity of above copies</p> <p>10. <input checked="" type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>11. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney</p> <p>12. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>13. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</p> <p>14. <input type="checkbox"/> Preliminary Amendment</p> <p>15. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</p> <p>16. <input checked="" type="checkbox"/> Figure of Drawing to be published <u>1</u></p> <p>17. <input type="checkbox"/> Foreign priority claimed</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> Claim of Priority</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> Certified Copy of Priority Document(s)</p> <p>18. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b) (2) (B) (i). Applicant must attach form PTO/SB/35 or its equivalent.</p> <p>19. <input checked="" type="checkbox"/> Assignee: <u>Lighthouse Instruments, LLC.</u> <u>Charlottesville, VA</u></p> <p>20. <input checked="" type="checkbox"/> Other: <u>Cover Letter</u></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>															
<p>21. If a <b>CONTINUING APPLICATION</b>, check appropriate box and supply the requisite information:</p> <p><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior Application No. _____ / _____, filed _____.</p> <p>Prior application information: Examiner: _____ Group Art Unit: _____</p>																	

Address all future correspondence to **Customer No. 7055** at the present address of:

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Reston, VA 20191  
(703) 716-1191

10/15/03  
Date

[Signature]  
Signature

Arnold Turk, Reg. No. 33,094  
Typed or Printed Name

P24039.002  15915 U.S. PTO 101503 <b>FEE TRANSMITTAL</b>		<b>Complete if Known</b>	
		Application Number	Not Yet Assigned
		Filing Date	Concurrently Herewith
		First Named Inventor	James R. VEALE et al.
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
TOTAL AMOUNT OF PAYMENT (\$587.00)		Attorney Docket Number P24039	

<b>METHOD OF PAYMENT (check one)</b>	<b>FEE CALCULATION (continued)</b>																																																																																																																																																																																																																																																																																																										
<p>1. <input checked="" type="checkbox"/> The U.S Patent and Trademark Office is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number <u>19-0089</u></p> <p>Deposit Account Name <u>GREENBLUM &amp; BERNSTEIN, P.L.C.</u></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17, including any required extension of time fees in any concurrent or future reply requiring a petition for extension of time for its timely submission (37 CFR 1.136(a)(3))</p> <p><input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b)</p> <p><input checked="" type="checkbox"/> Applicant Claims Small Entity Status See 37 CFR 1.27.</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:  <input checked="" type="checkbox"/> Check   <input type="checkbox"/> Credit Card   <input type="checkbox"/> Money Order   <input type="checkbox"/> Other</p> <p style="text-align: center;"><b>FEE CALCULATION (fees effective 10/01/03)</b></p> <p><b>1. FILING FEE</b></p> <table style="width:100%;"> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td><u>\$385.00</u></td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td>_____</td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td>_____</td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td>_____</td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td>_____</td> </tr> <tr> <td colspan="5"><b>SUBTOTAL (1)</b></td> <td><b>(\$385.00)</b></td> </tr> </table> <p><b>2. CLAIMS</b></p> <table style="width:100%;"> <tr> <th>Total Claims</th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> <tr> <td>38</td> <td>-20=</td> <td>18</td> <td>9 = <u>\$162.00</u></td> </tr> <tr> <td>Independent Claims</td> <td>2 -3=</td> <td>0</td> <td>43 = <u>0</u></td> </tr> <tr> <td>Multiple Dependent Claims</td> <td>0</td> <td>x</td> <td>145 = <u>0</u></td> </tr> </table> <table style="width:100%;"> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> <td>_____</td> </tr> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> <td>_____</td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple dependent claim</td> <td>_____</td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>Reissue independent claims over original patent</td> <td>_____</td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>Reissue claims in excess of 20 and over original patent</td> <td>_____</td> </tr> <tr> <td colspan="5"><b>SUBTOTAL (2)</b></td> <td><b>(\$162.00)</b></td> </tr> </table>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1001	770	2001	385	Utility filing fee	<u>\$385.00</u>	1002	340	2002	170	Design filing fee	_____	1003	530	2003	265	Plant filing fee	_____	1004	770	2004	385	Reissue filing fee	_____	1005	160	2005	80	Provisional filing fee	_____	<b>SUBTOTAL (1)</b>					<b>(\$385.00)</b>	Total Claims	Extra	Fee from below	Fee Paid	38	-20=	18	9 = <u>\$162.00</u>	Independent Claims	2 -3=	0	43 = <u>0</u>	Multiple Dependent Claims	0	x	145 = <u>0</u>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1202	18	2202	9	Claims in excess of 20	_____	1201	86	2201	43	Independent claims in excess of 3	_____	1203	290	2203	145	Multiple dependent claim	_____	1204	86	2204	43	Reissue independent claims over original patent	_____	1205	18	2205	9	Reissue claims in excess of 20 and over original patent	_____	<b>SUBTOTAL (2)</b>					<b>(\$162.00)</b>	<p><b>3. 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1254	1,480	2254	740	Extension for response within 4th month	_____																																																																																																																																																																																																																																																																																																						
1255	2,010	2255	1,005	Extension for response within 5th month	_____																																																																																																																																																																																																																																																																																																						
1401	330	2401	165	Notice of Appeal	_____																																																																																																																																																																																																																																																																																																						
1402	330	2402	165	Filing a brief in support of an appeal	_____																																																																																																																																																																																																																																																																																																						
1403	290	2403	145	Request for oral hearing	_____																																																																																																																																																																																																																																																																																																						
1451	1,510	1451	1,510	Petition to institute a public use proceeding	_____																																																																																																																																																																																																																																																																																																						
1452	110	2452	55	Petition to revive unavoidably abandoned application	_____																																																																																																																																																																																																																																																																																																						
1453	1,330	2453	665	Petition to revive unintentionally abandoned application	_____																																																																																																																																																																																																																																																																																																						
1501	1,330	2501	665	Utility issue fee (or reissue)	_____																																																																																																																																																																																																																																																																																																						
1502	480	2502	240	Design issue fee	_____																																																																																																																																																																																																																																																																																																						
1503	640	2503	320	Plant issue fee	_____																																																																																																																																																																																																																																																																																																						
1460	130	1460	130	Petitions to the Commissioner	_____																																																																																																																																																																																																																																																																																																						
1807	50	1807	50	Petitions related to provisional applications	_____																																																																																																																																																																																																																																																																																																						
1806	180	1806	180	Submission of IDS	_____																																																																																																																																																																																																																																																																																																						
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	<u>\$40.00</u>																																																																																																																																																																																																																																																																																																						
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	_____																																																																																																																																																																																																																																																																																																						
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	_____																																																																																																																																																																																																																																																																																																						
1801	770	2801	385	Request for Continued Examination (RCE)	_____																																																																																																																																																																																																																																																																																																						
1802	900	1802	900	Request for expedited examination of a design application	_____																																																																																																																																																																																																																																																																																																						
Other fee (specify) _____					_____																																																																																																																																																																																																																																																																																																						
Other fee (specify) _____					_____																																																																																																																																																																																																																																																																																																						
<b>SUBTOTAL (3)</b>					<b>(\$40.00)</b>																																																																																																																																																																																																																																																																																																						
*Reduced by Basic Filing Fee paid																																																																																																																																																																																																																																																																																																											

<b>SUBMITTED BY</b>				<b>Complete (if applicable)</b>	
Typed or Printed Name		Arnold Turk		Reg. Number 33,094	
Signature		Date 10/15/03		Deposit Account User ID 19-0089	

P24039.A01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : James R. VEALE et al.

Appln. No : Not Yet Assigned

Filed : Concurrently Herewith

For : SYSTEM AND METHOD FOR AUTOMATED HEADSPACE ANALYSIS

**COVER LETTER.**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir :

The undersigned points out that the executed application being filed herewith includes copies of pages 1 - 3 of three partially executed Declarations, and pages 1 - 35 and 5 sheets of drawings which were added by the law firm of the undersigned, which are identical to pages 1 - 35 and 5 sheets of drawings forwarded for execution. Further, the undersigned has been advised that the application was physically present when the inventors executed the Declaration.

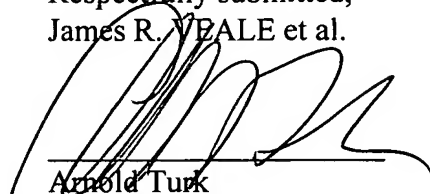
Accordingly, Applicants respectfully submit that the present application is properly executed and should be considered as filed in executed form.

Applicants further note that the inventor Glenn R. Edwards has corrected the spelling of his name on executed Declaration prior to execution of the same.

P24039.A01

Should there be any questions or comments, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,  
James R. VEALE et al.



Arnold Turk  
Reg. No. 33,094

October 15, 2003  
GREENBLUM & BERNSTEIN, P.L.C.  
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